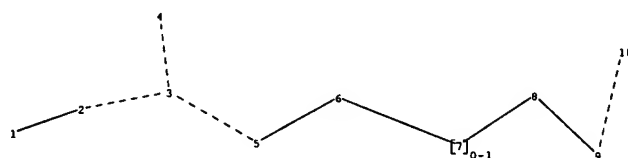
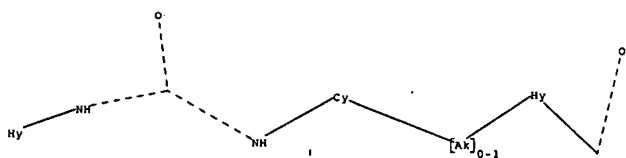


EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3870	((544/336) or (514/338) or (546/271.7) or (546/277.1) or (514/338) or (546/275.7) or (544/353) or (514/338)).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/11/13 10:54
L2	245	1 and cancer and urea	US-PGPUB; USPAT	OR	OFF	2007/11/13 10:54



chain nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-2 2-3 3-4 3-5 5-6 6-7 7-8 8-9 9-10

exact/norm bonds :

1-2 2-3 3-4 3-5 5-6 6-7 7-8 8-9 9-10

Match level :

1:Atom 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:Atom 7:CLASS 8:Atom 9:CLASS 10:CLASS

Generic attributes :

1:

Type of Ring System : Polycyclic

8:

Saturation : Unsaturated

Element Count :

Node 8: Limited

C,C5

N,N1

10788426

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 2 JUL 02 LMEDLINE coverage updated
NEWS 3 JUL 02 SCISEARCH enhanced with complete author names
NEWS 4 JUL 02 CHEMCATS accession numbers revised
NEWS 5 JUL 02 CA/Capplus enhanced with utility model patents from China
NEWS 6 JUL 16 Capplus enhanced with French and German abstracts
NEWS 7 JUL 18 CA/Capplus patent coverage enhanced
NEWS 8 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9 JUL 30 USGENE now available on STN
NEWS 10 AUG 06 CAS REGISTRY enhanced with new experimental property tags
NEWS 11 AUG 06 FSTA enhanced with new thesaurus edition
NEWS 12 AUG 13 CA/Capplus enhanced with additional kind codes for granted patents
NEWS 13 AUG 20 CA/Capplus enhanced with CAS indexing in pre-1907 records
NEWS 14 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 15 AUG 27 USPATOLD now available on STN
NEWS 16 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 17 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 18 SEP 13 FORIS renamed to SOFIS
NEWS 19 SEP 13 INPADOCDB enhanced with monthly SDI frequency
NEWS 20 SEP 17 CA/Capplus enhanced with printed CA page images from 1967-1998
NEWS 21 SEP 17 Capplus coverage extended to include traditional medicine patents
NEWS 22 SEP 24 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 23 OCT 02 CA/Capplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS 24 OCT 19 BEILSTEIN updated with new compounds

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

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10788426

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 10:22:25 ON 13 NOV 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 12 NOV 2007 HIGHEST RN 953132-99-5

DICTIONARY FILE UPDATES: 12 NOV 2007 HIGHEST RN 953132-99-5

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\brobinson1\My Documents\stnweb\Queries\asdfdsa.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:25:37 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 34918 TO ITERATE

5.7% PROCESSED

2000 ITERATIONS

0 ANSWERS

Updated Search

10788426

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 687191 TO 709529
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 171.65 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
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FULL SCREEN SEARCH COMPLETED - 700701 TO ITERATE

100.0% PROCESSED 700701 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.12

L3 3 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 174.35 174.56

FILE 'HCAPLUS' ENTERED AT 10:25:56 ON 13 NOV 2007
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FILE COVERS 1907 - 13 Nov 2007 VOL 147 ISS 21
FILE LAST UPDATED: 12 Nov 2007 (20071112/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3
L4 2 L3

=> d l4, ibib abs hitstr, 1-2

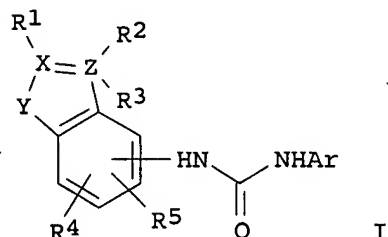
L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:591913 HCAPLUS
DOCUMENT NUMBER: 137:150215
TITLE: Cdk4 and/or Cdk6 inhibitors with biaryl ureas and

Updated Search

10788426

INVENTOR(S): their salts as antitumor agents
Hatayama, Satoshi; Hayashi, Kyoko; Honma, Mitsuki;
Takahashi, Ikuko
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 194 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002220338	A	20020809	JP 2001-18755	20010126
PRIORITY APPLN. INFO.:			JP 2001-18755	20010126
OTHER SOURCE(S):	MARPAT 137:150215			
GI				

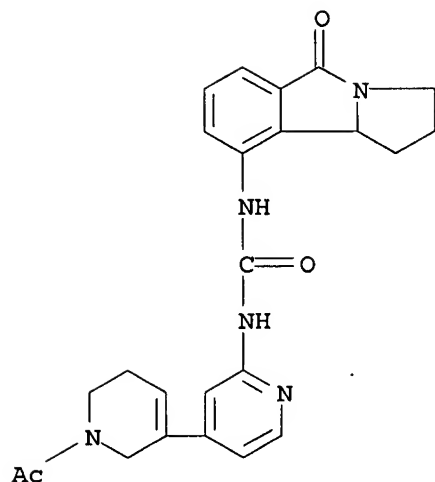


AB This invention relates to the general structures (I; Ar = N-containing hetero aromatic ring, X, Z = C, etc.; Y = CO, etc.; R1-R5 = H, etc.) and their salts as Cdk4 and/or Cdk6 inhibitors. I have antiproliferative effects on cancer cells and are potential antitumor agents. Formulation examples of I capsules, tablets, and injections were given.

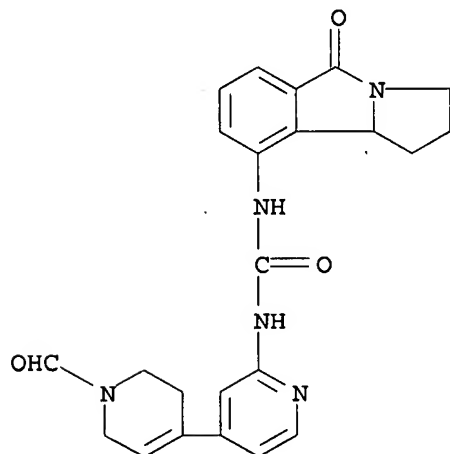
IT 322685-53-0 445430-92-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Cdk4 and/or Cdk6 inhibitors with biaryl ureas and their salts as antitumor agents)

RN 322685-53-0 HCAPLUS
CN 3,4'-Bipyridine, 1-acetyl-1,2,5,6-tetrahydro-2'-[[[(2,3,5,9b-tetrahydro-5-oxo-1H-pyrrolo[2,1-a]isoindol-9-yl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

10788426



RN 445430-92-2 HCAPLUS
CN Urea, N-(1'-formyl-1',2',3',6'-tetrahydro[4,4'-bipyridin]-2-yl)-N'-(2,3,5,9b-tetrahydro-5-oxo-1H-pyrrolo[2,1-a]isoindol-9-yl)- (CA INDEX NAME)

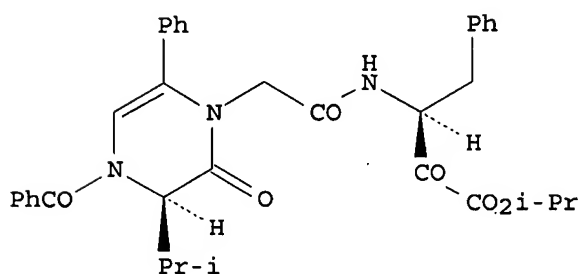
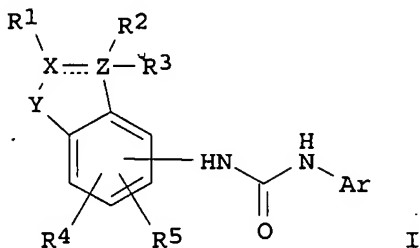


L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:78363 HCAPLUS
DOCUMENT NUMBER: 134:147614
TITLE: Preparation of N,N'-biarylurea derivatives as inhibitors of cyclin-dependent kinases (Cdk4 and Cdk6)
INVENTOR(S): Hayama, Takashi; Hayashi, Kyoko; Honma, Mitsutaka; Takahashi, Ikuko
PATENT ASSIGNEE(S): Banyu Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 460 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

Updated Search

10788426

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001007411	A1	20010201	WO 2000-JP4991	20000726
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, CA, CN, CR, CU, CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2380389	A1	20010201	CA 2000-2380389	20000726
JP 2001106673	A	20010417	JP 2000-274175	20000726
EP 1199306	A1	20020424	EP 2000-949909	20000726
EP 1199306	B1	20051207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
EP 1557168	A2	20050727	EP 2005-101402	20000726
EP 1557168	A3	20070523		
R: DE, ES, FR, GB, IT				
ES 2251395	T3	20060501	ES 2000-949909	20000726
US 6958333	B1	20051025	US 2002-31795	20020402
US 2007027147	A1	20070201	US 2004-2422	20041203
PRIORITY APPLN. INFO.:			JP 1999-211384	A 19990726
			EP 2000-949909	A3 20000726
			WO 2000-JP4991	W 20000726
			US 2002-31795	A3 20020402
OTHER SOURCE(S):			MARPAT 134:147614	
GI				



AB N-(hetero)aryl-N'-heterocyclurea derivs. represented by general formula (I) [wherein Ar represents a nitrogenous heterocyclic aromatic group such as (un)substituted pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl, thiazolyl, isothiazolyl, oxazolyl, isoxazolyl, pyrazolyl, pyrrolyl, imidazolyl, indolyl, isoindolyl, quinolyl, isoquinolyl, benzothiazolyl, or

benzoxazolyl; X and Z each represents C or N or together with R1 or R2 and/or R3 represent CH or N; Y represents CO, SO, or SO₂; R1 represents hydrogen, (un)substituted lower alkyl, Y3-W2-Y4-R5, etc.; wherein R5 = H, (un)substituted lower alkyl, lower alkenyl, lower alkynyl, lower cycloalkyl, aryl, imidazolyl; isoxazolyl, isoquinolyl, isoindolyl, indazolyl, indolyl, indolidinyl, isothiazolyl, ethylenedioxyphenyl, oxazolyl, pyridyl, pyrazinyl, pyrimidinyl, pyridazinyl, pyrazolyl, quinoxalinyl, quinolyl, etc.; W2 = single bond, O, S, SO, SO₂, N-(un)substituted NH, SO₂NH, NHSO₂NH, NHSO₂, CONH, NHCO, NHCONH, NHCO₂, etc.; Y3, Y4 = single bond, linear or branched lower alkylene; R2 and R3 each represents hydrogen, lower alkyl or alkoxy, or Y3-W2-Y4-R5 (Y3, W2, Y4, R5 = same as above), or one of R2 and R3 together with R1 and X forms cyclohexane, cyclopentane, piperidine, 3,4,5,6-tetrahydro-1,3-oxazine, tetrahydrothiopyran, pyrrolidine, tetrahydrothiofuran, oxazolidine ring, etc.; R4 and R5 represent H, halo, OH, amino, or Y3-W2-Y4-R5 (Y3, W2, Y4, R5 = same as above)] or salts thereof are prepared. The compds. (e.g. II) have a remarkable proliferation-inhibitory effect on tumor cells. A Cdk4 and/or Cdk6 inhibitor for use in the therapy of malignant tumor can hence be provided. II showed IC₅₀ of 0.061 and 0.019 μ M against cyclin-D1-Cdk4 and cyclin-D2-Cdk4, resp., vs. 0.36 and 0.056 μ M, resp., for (+)-flavopiridol, and inhibited the proliferation of HCT116 and MKN-1 cells with IC₅₀ of 0.013 and 0.10 μ M, resp., vs. 0.15 and 0.87 μ M, resp., for (+)-flavopiridol. Pharmaceutical formulations containing I were prepared

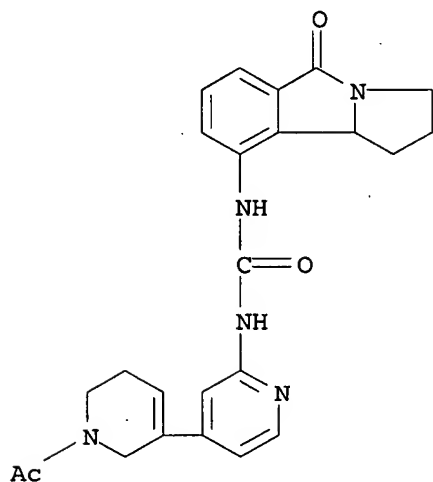
IT 322685-53-0P 322685-55-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-(hetero)aryl-N'-heterocyclylurea derivs. as inhibitors of cyclin-dependent kinases (Cdk4 and Cdk6) and antitumor agents)

RN 322685-53-0 HCAPLUS

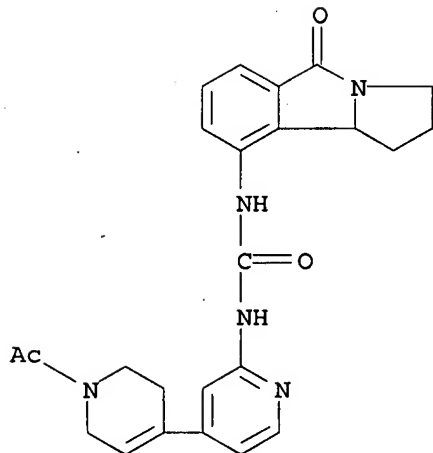
CN 3,4'-Bipyridine, 1-acetyl-1,2,5,6-tetrahydro-2'-[[[(2,3,5,9b-tetrahydro-5-oxo-1H-pyrrolo[2,1-a]isoindol-9-yl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 322685-55-2 HCAPLUS

CN 4,4'-Bipyridine, 1-acetyl-1,2,3,6-tetrahydro-2'-[[[(2,3,5,9b-tetrahydro-5-oxo-1H-pyrrolo[2,1-a]isoindol-9-yl)amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

10788426



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
13.14	187.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

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ENTRY	SESSION
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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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FILE 'REGISTRY' ENTERED AT 10:22:34 ON 13 NOV 2007

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L1 STRUCTURE UPLOADED
L2 0 S L1
L3 3 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 10:25:56 ON 13 NOV 2007
L4 2 S L3

FILE 'CAOLD' ENTERED AT 10:26:12 ON 13 NOV 2007

=> s l3
L5 0 L3

=> file hcaplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST.	0.45	188.15
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FILE COVERS 1907 - 13 Nov 2007 VOL 147 ISS 21
FILE LAST UPDATED: 12 Nov 2007 (20071112/ED)

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L1 STRUCTURE UPLOADED
L2 0 S L1
L3 3 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 10:25:56 ON 13 NOV 2007
L4 2 S L3

FILE 'CAOLD' ENTERED AT 10:26:12 ON 13 NOV 2007
L5 0 S L3

Updated Search

10788426

FILE 'HCAPLUS' ENTERED AT 10:26:24 ON 13 NOV 2007

=> s dumas, j?/au and boyer, s?/au and verma, s?/au and adnane, l?/au and chen, y?/au and lee, w?/au and phillips, b?/au and smith, r?/au and scott, w?/au and burke, j?/au and chen, z?/au

766 DUMAS, J?/AU
325 BOYER, S?/AU
1697 VERMA, S?/AU
10 ADNANE, L?/AU
47778 CHEN, Y?/AU
13759 LEE, W?/AU
1030 PHILLIPS, B?/AU
15581 SMITH, R?/AU
2111 SCOTT, W?/AU
2095 BURKE, J?/AU
25681 CHEN, Z?/AU

L6 1 DUMAS, J?/AU AND BOYER, S?/AU AND VERMA, S?/AU AND ADNANE, L?/AU
AND CHEN, Y?/AU AND LEE, W?/AU AND PHILLIPS, B?/AU AND SMITH,
R?/AU AND SCOTT, W?/AU AND BURKE, J?/AU AND CHEN, Z?/AU

=> d l6, ibib abs hitstr, 1

L6 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:756711 HCAPLUS

DOCUMENT NUMBER: 141:277641

TITLE: Preparation of bicyclic (hetero)aryl- and
pyridine-containing diaryl ureas as Raf kinase and
angiogenesis inhibitors useful in the treatment of
cancer and other disorders

INVENTOR(S): Dumas, Jacques; Boyer, Stephen;
Verma, Sharad; Adnane, Lila;
Chen, Yuanwei; Lee, Wendy;
Phillips, Barton; Smith, Roger A.;
Scott, William J.; Burke, Jennifer;
Chen, Jianqing; Chen, Zhi; Fan, Jianmei;
Miranda, Karl; Raudenbush, Brian; Redman, Aniko; Shao,
Jianxing; Su, Ning; Wang, Gan; Yi, Lin; Zhu, Qingming
PATENT ASSIGNEE(S): Bayer Pharmaceuticals Corporation, USA

SOURCE: PCT Int. Appl., 162 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

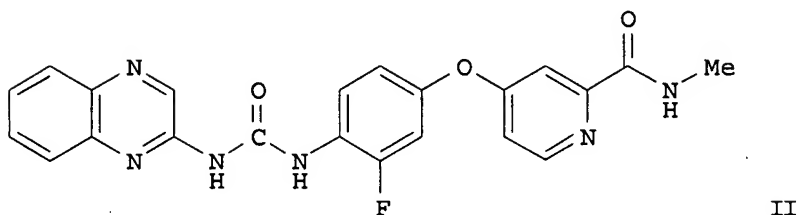
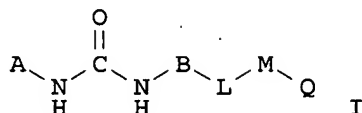
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004078748	A2	20040916	WO 2004-US6287	20040301
WO 2004078748	A3	20041111		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI			
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2516931	A1	20040916	CA 2004-2516931	20040301

Updated Search

10788426

EP 1608639 A2 20051228 EP 2004-716166 20040301
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK
JP 2006519265 T 20060824 JP 2006-508978 20040301
MX 2005PA09104 A 20060531 MX 2005-PA9104 20050826
PRIORITY APPLN. INFO.: US 2003-450348P P 20030228
WO 2004-US6287 W 20040301

OTHER SOURCE(S): MARPAT 141:277641
GI



AB Title compds. I [wherein A = benzimidazolyl, 2,3-dihydro-1H-indolyl, 2,3-dihydro-1H-indenyl, 1H- or 2H-indazolyl, 1,3-benzodioxin-6-yl, quinoxalinyl, etc.; B = (un)substituted Ph, naphthyl, pyridinyl, quinolinyl; L = (CH₂)_m-D-(CH₂)_n; m, n = independently 0-4; D = O, C(:O), NH and derivs., NHCO and derivs., S, CONH and derivs.; M = (un)substituted pyridine ring; Q = C(:O)H and derivs., CO₂H and derivs., CONH₂ and derivs.; and their pharmaceutically acceptable salts, prodrugs, and metabolites] were prepared as Raf kinase inhibitors for treating hyper-proliferative and angiogenesis disorders, alone or in combination with cytotoxic therapies. For example, urea II was prepared from 4-(4-Amino-3-fluorophenoxy)-N-methylpyridine-2-carboxamide (preparation given), triphosgene, 2-aminoquinoxaline, in the presence of DIPEA/anhydrous DMF at 75°. Selected I showed 80% inhibition of c-Raf kinase at 1 μM. Thus, I are useful for treating cancer and other Raf kinase-mediated diseases.